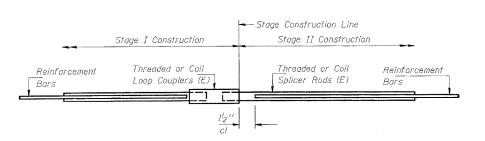
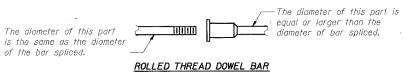
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



SPLICER DETAIL

Bar Size	No. Assemblies Required	Location
#4	36	Bottom Slab
#6	26	Top Slab
#6	21	Culvert Walls



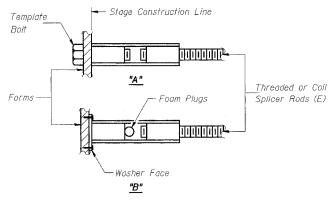
** ONE PIECE

- Wire Connector

WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt. "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E): Indicates epoxy coating.

SHEET OF 7

	FAS	SECTION	COUNTY	TOTAL	SHEE
T 5	1379	(108B)BR-1	STARK	33	26
	STA	214+48.00			
		TI 6 TA	iore		

NOTES

Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.

Splicer rods shall be of minimum 60 ksi yield strength, threaded or coiled full length. All reinforcement bars shall be lapped and fied to the splicer rods or dowel bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.

Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

© Minimum Capacity = 1.25 x fy x A_t

(Tension in kips) = 1.25 x fy x A_t

(Minimum **Pull-out Strength = 1.25 x fs_{allow} x A_t

Where fy = Yield strength of lapped reinforcement bars in ksi.

fs_{allow}= Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)

A_t = Tensile stress area of lapped reinforcement bars. * = 28 day concrete

	BAR SPLIC	ER ASSEMBLI	ES
		Strength Requirements	
	Splicer Rod or Dowel Bar Length		
#5	2'-0"	23.0	9.2
#6	2'-7''	33.1	13.3
#7	3′-5″	45.1	18.0
#8	4'-6''	58.9	23.6

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."

DESIGNED	JLG
CHECKED	GEP
DRAWN	BAD
CHECKED	JLG

BSD-1 4-30-99

BAR SPLICER ASSEMBLY DETAILS FAS 1379 (IL RTE 91) OVER INDIAN CREEK TRIBUTARY SECTION (108B)BR-1 STARK COUNTY STA 214+48.00 SN 088-2500